BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

Name of Work:- Name of Work:- Improvements to roads and drains of mother teresa road in mariyannapalya in ward no.07 Byataranapura.
Estimate Cost:- 75.00 Lakhs

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S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Pg No.140.Item No.18.47)								
	Basic Rate:	cum	**899.00**						
	Area Weightage @ 6%		53.94						
	Total		**952.94**						
	Mandi mariyappa road		1	145.00	3.00	0.30	130.50		
	2nd cross		1	35.00	3.00	0.30	31.50		
	1st cross		1	35.00	3.00	0.30	31.50		
	Mother teresa 2nd cross		1	60.00	4.00	0.30	72.00		
	Gaare chinappa layout								
	cross road		1	75.00	5.00	0.30	112.50		
	Over burden earth		1	2.00	0.60	0.45	0.54		
					TOTAL		**378.54**	952.94	**360726.00**
2	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. (Pg No.143.Item No.19.1)								
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						
	Mandi mariyappa road		1	145.00	3.00	0.30	130.50		
	2nd cross		1	35.00	3.00	0.30	31.50		
	1st cross		1	35.00	3.00	0.30	31.50		
	Mother teresa 2nd cross		1	60.00	4.00	0.30	72.00		
	Gaare chinappa layout								
	cross road		1	75.00	5.00	0.30	112.50		
	Sandhyagappa layout drains								
	1st main		2	55.00	0.80	0.70	61.60		
	2nd main		2	100.00	0.80	0.70	112.00		
	2nd A main		2	45.00	0.80	0.70	50.40		
	3rd main		2	140.00	0.80	0.70	156.80		
	4th main								
	cross road-1		2	35.00	0.80	0.70	39.20		
	cross road-2		2	32.00	0.80	0.70	35.84		

	Over Burden		20	2.50	1.50	0.90	67.50		
					TOTAL		**901.34**	137.80	**124205.00**
3	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller)(P-147., It No: 19.60)								
	Basic Rate:	cum	325.00						
	Area Weightage @ 6%		19.50						
	Total		344.50						
	Mandi mariyappa		1.00	145.00	3.00	0.30	130.50		
	2nd cross		1.00	35.00	3.00	0.30	31.50		
	1st cross		1.00	35.00	3.00	0.30	31.50		
	Mother teresa 2nd		1.00	60.00	4.00	0.30	72.00		
	Gaare chinappa								
	cross road		1.00	75.00	5.00	0.30	112.50		
					TOTAL		**378.00**	344.50	**130221.00**
4	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.13, It.4.3)**								
	Basic Rate:	cum	5102.00						
	Area Weightage @ 6%		306.12						
	Total		5408.12						
	Mandi mariyappa		1.00	145.00	3.00	0.15	65.25		
	2nd cross		1.00	35.00	3.00	0.15	15.75		
	1st cross		1.00	35.00	3.00	0.15	15.75		
	Mother teresa 2nd		1.00	60.00	4.00	0.15	36.00		
	Gaare chinappa								
	cross road		1.00	75.00	5.00	0.15	56.25		
	RCC DRAIN-BOTTOM								
	Sandhyagappa layout								
	1st main		2.00	55.00	0.80	0.15	13.20		
	2nd main		2.00	100.00	0.80	0.15	24.00		
	2nd A main		2.00	45.00	0.80	0.15	10.80		
	3rd main		2.00	140.00	0.80	0.15	33.60		
	4th main								
	cross road-1		2.00	35.00	0.80	0.15	8.40		
	cross road-2		2.00	32.00	0.80	0.15	7.68		
					TOTAL		**286.68**	5408.12	**1550400.00**

5	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.460 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 14, Item NO. 4.11)								
	Basic Rate:	cum	5659.00						
	Area Weightage @		339.54						
	Total		5998.54						
	Bottom								
	Sandhyagappa layout drains								
	1st main		2	55.00	0.60	0.15	9.90		
	2nd main		2	100.00	0.60	0.15	18.00		
	2nd A main		2	45.00	0.60	0.15	8.10		
	3rd main		2	140.00	0.60	0.15	25.20		
	4th main								
	cross road-1		2	35.00	0.60	0.15	6.30		
	cross road-2		2	32.00	0.60	0.15	5.76		
	Side Wall								
	Sandhyagappa layout drains								
	1st main	**2x2**	4	55.00	0.15	0.30	9.90		
	2nd main	**2x2**	4	100.00	0.15	0.30	18.00		
	2nd A main	**2x2**	4	45.00	0.15	0.30	8.10		
	3rd main	**2x2**	4	140.00	0.15	0.30	25.20		
	4th main								
	cross road-1	**2x2**	4	35.00	0.15	0.30	6.30		
	cross road-2	**2x2**	4	32.00	0.15	0.30	5.76		
							146.52	5998.54	**878907.00**
6	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.18, Item No.4.46.2)								
	Basic Rate:	Tonne	70966.00						
	Area Weightage @ 6%		4257.96						
	Total		75223.96						
	Reinforcement for side wall						146.52		
			At 55 Kg % per cum				**8.06**	75223.96	**606200.00**
7	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								

	Basic Rate:	Sqm	456.00						
	Area Weightage @ 6%		27.36						
	Total		483.36						
	SIDE								
	Mandi mariyappa road	1x2	2	145.00		0.10	29.00		
	2nd cross	1x2	2	35.00		0.10	7.00		
	1st cross	1x2	2	35.00		0.10	7.00		
	Mother teresa 2nd cross	1x2	2	60.00		0.10	12.00		
	Gaare chinappa layout								
	cross road	1x2	2	75.00		0.10	15.00		
	Sandhyagappa layout drains								
	1st main	2x4	8	55.00		0.30	132.00		
	2nd main	2x4	8	100.00		0.30	240.00		
	2nd A main	2x4	8	45.00		0.30	108.00		
	3rd main	2x4	8	140.00		0.30	336.00		
	4th main								
	cross road-1	2x4	8	35.00		0.30	84.00		
	cross road-2	2x4	8	32.00		0.30	76.80		
							1046.80	483.36	**505982.00**
8	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)								
	DETA RATE	**Sqm**							
	Covering Slab								
	Sandhyagappa layout drains								
	1st main		185		0.60	0.75	83.25		
	2nd main		335		0.60	0.75	150.75		
	2nd A main		150		0.60	0.75	67.50		
	3rd main		468		0.60	0.75	210.60		
	4th main								
	cross road-1		121		0.60	0.75	54.45		
	cross road-2		110		0.60	0.75	49.50		
							616.05	2337.00	**1439708.85**

9	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavements using grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregate at 0.46 cum, coarse and fine aggregate confirming to IS:383-2016, with superplastisiser @3lts confirming to IS9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades textured machine, and curing including cost of all materials, labour, hire charges of machineries, all lead and lift charges etc.., complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Pg.No.176, It.22.6.1)**									
	Basic Rate:	cum	4916.00						
	Area Weightage @ 6%		294.96						
	Total		5210.96						
	Mandi mariyappa		1.00	145.00	3.00	0.10	43.50		
	2nd cross		1.00	35.00	3.00	0.10	10.50		
	1st cross		1.00	35.00	3.00	0.10	10.50		
	Mother teresa 2nd		1.00	60.00	4.00	0.10	24.00		
	Gaare chinappa								
	cross road		1.00	75.00	5.00	0.10	37.50		
					TOTAL		**126.00**	5210.96	**656581.00**
10	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift.**(Pg.No.176, It.22.7)**								
	Basic Rate:	sqm	68.00						
	Area Weightage @ 6%		4.08						
	Total		72.08						
	Mandi mariyappa		1.00	145.00	3.00		435.00		
	2nd cross		1.00	35.00	3.00		105.00		
	1st cross		1.00	35.00	3.00		105.00		
	Mother teresa 2nd		1.00	60.00	4.00		240.00		
	Gaare chinappa								
	cross road		1.00	75.00	5.00		375.00		
					TOTAL		**1260.00**	72.08	**90821.00**
11	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No. 17.1)								
	Basic Rate	cum	**57.00**				1279.88	94.34	**120744.00**
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								

	For 10 Km								
	Rs.2.50X1.28TonneX		32.00						
	Total		89.00						
	Add Area Weightage6%		5.34						
			94.34						
12						Sub Total			6464572.00
13				Add 12% GST charges					775748.64
14				KRIDL CHARGES (3+1)%					258582.88
15				Miscelleneous charges					1096.48
16						Total			7500000.00

1)This is certified that the work spot comes under BBMP limits only.
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

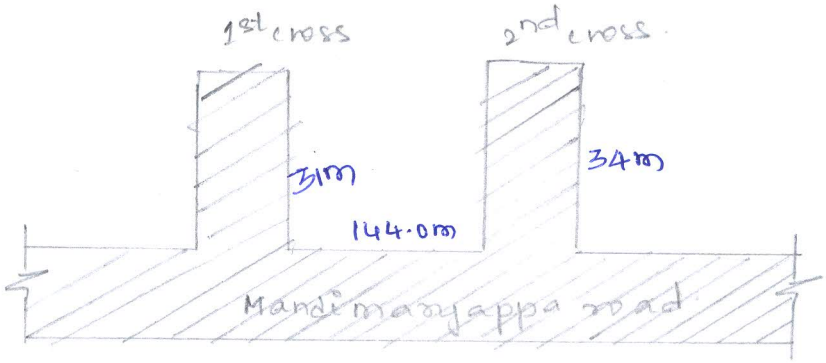
Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

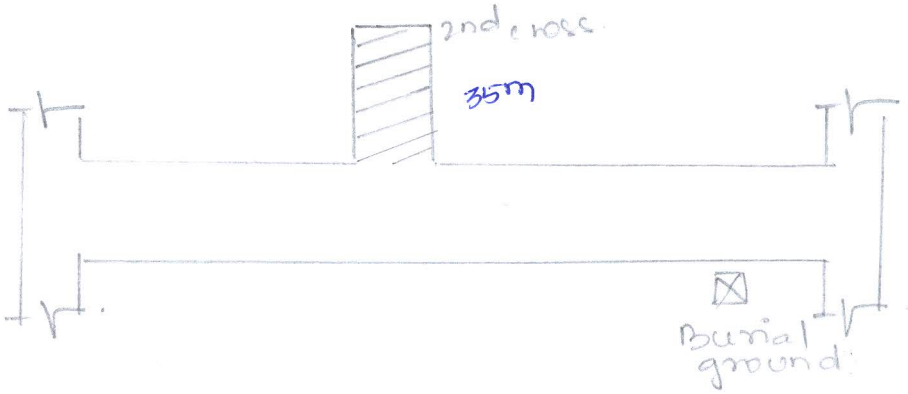
Executive Engineer
Byatrayanapura Division
B.B.M.P.

ADMINISTRATIVE APPROVAL
Accorded For Rs. 75.00, Seventy Five Lakhes only
Head of A/c. P3727. SC-SP|TSP
Div. Ref. No. 81 Date 24-10-19
AE 24/10
24/10
EE(BTP)

Technical Sanction
Accorded For Rs 75 Lakhs only
Head of A/C P3727
CER NO :.....137..... Dt: 28/10/2019
[TA]
SE (YNK)

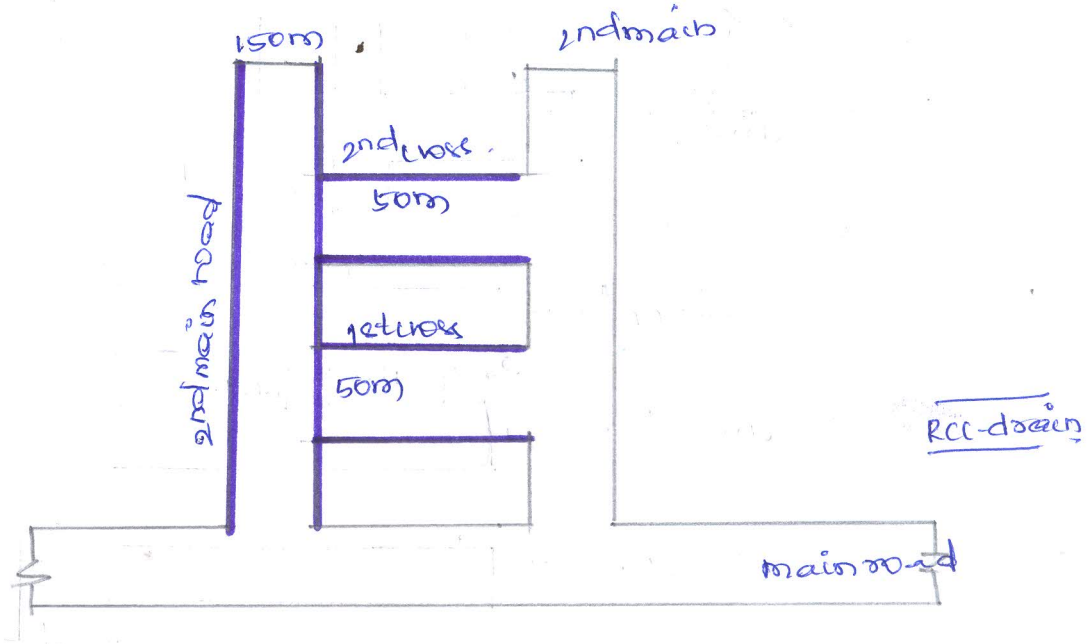
Name of work:- Improvements to roads and drains of mother-teresa road in Mariyannapalya in ward no.07.





coffeboard park

CC road



Sandhyagappa reddy layout.

Asst Ly. N.D
AE (Ast)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.